

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strike through~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please ADD new claim 8 in accordance with the following:

1. (previously presented) An object collaboration apparatus operated in accordance with a message and action relationship, comprising:
 - a message receiving part for allowing each object to monitor and capture a message transmitted on a network;
 - a message and action relationship storing part for storing contents of an action that is a reaction to the message and adapted to search for a corresponding action with a message body as a search key; and
 - an action executing part for executing processing in accordance with the contents of an action,wherein the apparatus further comprises a message type classifying and matching part, the message type classifying and matching part stores and holds a message type dealt with by the message and action relationship storing part, analyzes a message type of a received message, conducts matching processing for determining whether or not a type of the received message is matched with the message type dealt with by the message and action_ relationship storing part, and if matched, gives the received message to the message and action relationship storing part, and
 - an action is executed in accordance with the message and action relationship based on the message given to the message and action relationship storing part.
-
2. (previously presented) An object collaboration apparatus according to claim 1, wherein classification of the message type has a hierarchy, and a message type header representing the message type contains information representing the hierarchy of the classification of the message type, and
 - by applying the hierarchy of the classification of the message type, the message type classifying and matching part stores and holds a message type dealt with by the message and

action relationship storing part, analyzes a message type of the received message, and conducts matching of the message type.

3. (original) An object collaboration apparatus according to claim 2, wherein the message type is defined by using an idea of inheritance in object-oriented programming, and the hierarchy of the classification of the message type contains a hierarchy of classification of a class derivation message type and a class derivation origin message type.

4. (previously presented) An object collaboration apparatus operated in accordance with a message and action relationship, comprising:

a message receiving part for allowing each object to monitor and capture a message transmitted on a network;

a message and action relationship storing part for storing contents of an action that is a reaction to the message and adapted to search for a corresponding action with a message body as a search key; and

an action executing part for executing processing in accordance with the contents of an action,

wherein the apparatus further includes an entity name rewrite object for, with respect to a message received from one object entity, rewriting object entity name information in a message representing the one object entity to another object entity name information representing another object entity, and returning the message to the network.

5. (previously presented) An object collaboration apparatus according to claim 4, wherein for synchronization processing between objects, action contents desired to be subjected to the synchronization processing are described by using the object entity name to be an entity name rewrite target by the entity name rewrite object, in the message and action relationship storing part of an object to be a slave, and

the entity name rewrite object rewrites the object entity name written as the entity name rewrite target into an object entity name to be a master object of the synchronization processing.

6. (previously presented) A computer-readable recording medium storing a processing program for realizing an object collaboration apparatus operated in accordance with a message and action relationship, the program comprising:

a message receiving processing operation of allowing each object to monitor and capture a message transmitted on a network;

a message and action relationship storing processing operation of storing contents of an action that is a reaction to the message and searching for a corresponding action with a message body as a search key;

an action executing processing operation of executing processing in accordance with the contents of an action;

a processing operation of storing and holding a message type dealt with in the message and action relationship storing processing operation;

a processing operation of analyzing a message type of a received message;

a processing operation of conducting matching processing for determining whether or not a type of the received message is matched with the message type dealt with by the message and action relationship storing part; and

a processing operation of giving the message to the message and action relationship storing part only in a case where the type of the received message is matched,

wherein only for a message whose type is matched, an action is executed in accordance with a message and action relationship.

7. (previously presented) A computer-readable recording medium storing a processing program for realizing an object collaboration apparatus for rewriting an entity name of a message transmitted by one object to an entity name of another object, operated in accordance with a message and action relationship, the program comprising:

a message receiving processing operation of allowing each object to monitor and capture a message transmitted on a network;

a message and action relationship storing processing operation of storing contents of an action that is a reaction to the message and searching for a corresponding action with a message body as a search key;

an action executing processing operation of executing processing in accordance with the contents of an action; and

an entity name rewrite processing operation of, with respect to a message received from one object entity, rewriting object entity name information in a message representing the one object entity to another object entity name information representing another object entity, and returning the message to the network.

8. (New) An object collaboration method operated in accordance with a message and action relationship, comprising:

selecting a received message, said received message being representative of a message whose type is matched; and

searching for an action corresponding to said received message;

wherein said selecting and searching reduces a load of an object and enhances speed of message and action relationship processing.